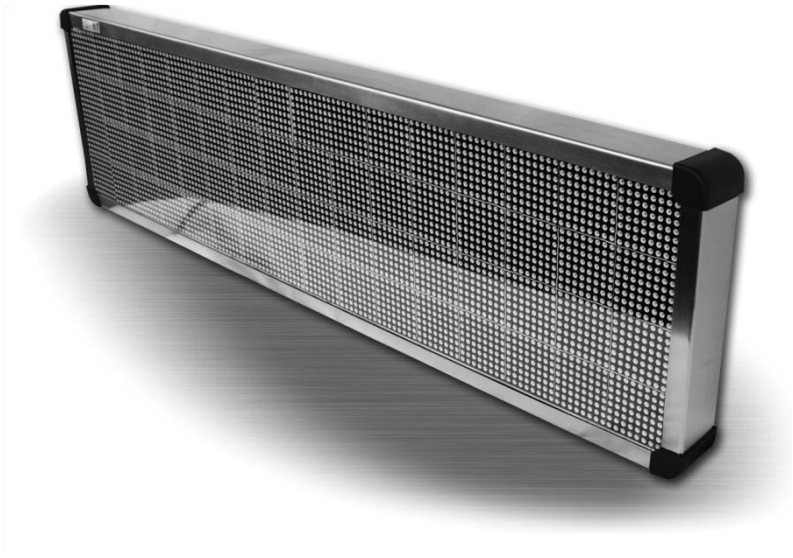
GILBT - LED display
User manual



Models : XL21, XL31, XL41, XL22, XL32, XL42

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Introduction

Congratulations and thank you for your confidence.
The subject of the purchase is high quality LED display - suitable for indoor and also outdoor use. LED display allows you to send general information and advertising spots to the viewers.

Our product is characterized by innovative technical solutions to facilitate its service and also to maximize the economy and the strength of the device.
We hope that we will contribute to the popularity of your company.

We wish you a lot of success!

Index

Introduction 2

Index 2

Installation 3

1.1 Installation process 4

1.2 Electric Installation 4

1.3 Installation of DCF system (optional) 4

2. Handling 5

2.1. Remote controller 5

2.2. Presentation selection 6

2.3. Standby 6

2.4. Internal menu 6

a. selecting presentation via menu 6

b. time setup 7

c. contrast 7

d. night mode 7

e. auto standby 8

f. pulsation 8

g. temperature adjustment 9

3. Warranty terms and conditions 9

4. Technical specification 11

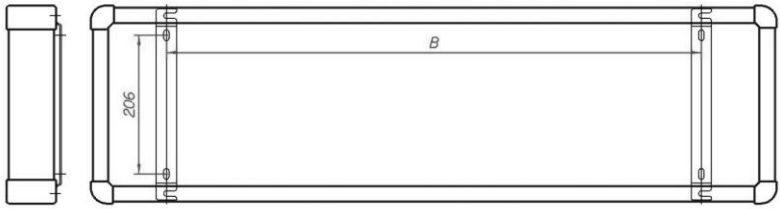
Installation

Important!

If the assembly does not execute a person authorized by GilBT. The company is not liable for any damage caused by incorrect installation.

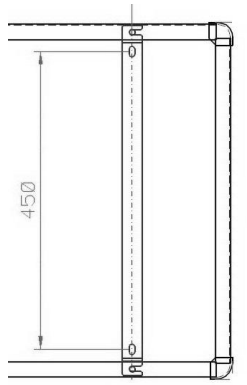
Before installation, make sure that surface dedicated for installation is suitable to support weight of given device. We do not recommend soft and fragile surfaces, such as polystyrene foam, mineral wool, plaster boards and wooden walls with a thickness of less than 30mm, etc.

Models 30cm high:



model	RL21; YL21; GL21; BL21	RL31; YL31; GL31; BL31	RL41; YL41; GL41; BL41
B	800mm	1200mm	1700mm

Models - 55cm high:



1.1 Installation process:

- fix two mounting brackets on dedicated surface, according to above dimensions
- loosen the four screws on the device to enable them to settle freely in the bracket holders
- slide the display into the bracket holders from the left or right side (depends on the fixing direction of the brackets)
- make sure that the device was inserted into the holders until it stops and each of the points of attachment is stable
- use a flat spanner to tighten the screws

1.2 Electric Installation

Caution!

We highly recommend that user should not perform electric installation without licensed electrician. GilBT company does not take any responsibility for damages caused by inappropriate and unprofessional installation.

GilBT company warns that the bare wires increase the risk of skin contact with conductors that can result in electric shock. Electric installation can be legally executed only by a licensed electrician and GilBT does not take responsibility for the negative effects associated with improper installation.

1.3 Installation of DCF system (optional)

The DCF aerial enables you to receive a signal generated by atomic clock based nearby Frankfurt in Germany and sync the display's clock to it . Atomic clock it is the most precise form of time measuring know to man.

DCF aerial is located right in the surface-mounted box connected with the device. Box should be fixed on the flat surface in horizontal position. Keep it at least 1m away from display (LED device might distort expected signal with its electromagnetic emission). Find a proper place for the aerial to ensure appropriate signal reception. To determine whether signal reception is sufficient or too weak observe the small LED fixed on the aerial box. Once display is turned on the diode should give a solid light for a few seconds and start blinking after a moment. LED should blink equally with a 1 second gaps (59 blinks and 1 stop over and over again). Any stops or irregular blinking defines weak signal. After installation excess of the lead can be stored in the aerial box.

2. Handling

LED screen displays presentation saved by user on the provided SD card. Each presentation consists of slides; their quantity, display order and type depends on user's preferences. Given presentations are being saved as a *.prs file.

These files can be created thanks to LPD software (LED Presentation Designer). The LPD software and also its manual can be downloaded directly from our official website, please refer to the below link:

http://www.gilbt.com/_eindex.html

2.1. Remote controller

The display can be controlled by provided RC to alter basing settings. The controller is equipped with 4 buttons. Each button has its individual function depending on the status of the display.

Buttons functions in various display modes :

	displaying mode	standby mode	menu
A button	menu	turn on	back
B button	standby	turn on	↑
C button	previous presentation	turn on	OK or next
D button	next presentation	turn on	↓

2.2. Presentation selection

GilBT LED screens has ability to handle as many presentation files as can be saved on the provided SD card.

If there is more than one presentation saved on the flash memory there is ability to select preferred *.prs file which will be played over and over again.

The pocket controller has 4 buttons, the easiest way to switch played presentation is to press “C” or “D” button which will result in skipping to the next or previous file. In this simple way user can quickly choose currently played presentation. There is also way to do this through menu; what will be described in details further in this chapter.

2.3. Standby

Standby is the mode that helps save an energy when there is no requirement to display any content, possibly late hours, time off, etc.

In order to accommodate the display in mentioned mode press “B” button while screen is in display mode, the screen will shut down immediately. To wake it up press any of 4 buttons just once the device will play automatically last remembered presentation.

There is also an option to drive the LED display into a standby mode automatically (auto standby- more about this option further in this manual).

2.4. Internal menu

The device enables you to change some settings through the internal menu. In order to enter given menu press “A” button , while device is in the display mode.

Once you entered menu; all buttons change their functions accordingly to the descriptions in the corners, the same as a buttons layout.

In the menu you can alter following settings

a. selecting presentation via menu

Apart from the mentioned way of choosing preferred *.prs file to be played (point 2.2). There is an option to select the file via internal menu. In order to do so, enter the “Presentation” in the menu.

Once you entered, list of saved *.prs files should appear on the screen. Choose wanted presentation using up and down buttons and accept by pressing “OK”.

b. time setup

In order to set a current time and date enter to the menu and select “Clock”. The device will display the time saved in memory.

The time is saved in format consisting of 6 numbers, as follow: hour, minutes, seconds, day, month, year. Set the individual number using up and down buttons switch to another or previous number using next and back buttons .

In order to save changes click next button so many times that you return to the menu. Other way of returning to the menu will result in ignoring the changes.

c. contrast

In order to adjust the brightness of the display enter the menu and select “Set contrast”. After this option current contrast value will appear on the screen which can be adjusted by

up and down buttons. Set the value between 1 and 10 and accept it by clicking next button, otherwise changes will be ignored.

d. night mode

In some instances contrast used during the day might be too bright for a dark time. GilBT display enables you to set a night contrast that is automatically used by device after dark. The reason behind this is to adjust optimal brightness for different conditions and save the energy.

Enter the “Night mode” in internal menu. The contrast value dedicated for a night time will

appear on the screen.

Set the value: 1 – 10 or Disabled.

In that last case display will use standard contrast through all day long. Do not forget to save the changes by clicking next, otherwise alerted settings will be lost.

Hint!

The night time lasts from time of sunset to the time of sunrise, therefore this option requires correct time and date to be set.

e. auto standby

The LED screen enables you to choose its working hours. In other words you can set the time that the display is ON eg. possibly the same time as opening hours of your business. That function helps you to save an energy and effort - constantly turning on and off the device when needed.

In order to set the working hours go to “Set standby” in internal menu. The screen with “from: 00:00” and “to: 00:00” will appear. This value determine what time the display will be in standby mode eg. from 01:00 to 08:30 it means that between these hours the LED display will be OFF and at 08:30 it will automatically wake up and play last remembered presentation. Set the wanted hours and accept it by clicking next button until you return to the menu. If you attend to switch this function OFF set both values to 00:00 it will result in 24h working time of the device.

Hint!

There is always an option to wake up the display manually while it is in auto standby mode. If you wish to do so just press any button and if you want to put it a sleep again just press B button .It does not affect auto standby mode settings.

f. pulsation

While creating a visual presentation on the laptop or desktop computer, there is an option to use pulsation effect which additionally draws viewer’s attention.

In the menu under position “Pulsation” is an option to do a little bit more about this effect.

There are three options to choose; set the pulsation programmed by user in LPD, switch to constant pulsation applied to all displayed content, disable pulsation at all. Select preferred setting and accept it.

g. temperature adjustment

Device has a built-in sensor that allows you to display current temperature on the screen (more details about this option in LPD user manual).

Because of constantly changing weather conditions there could be a difference between displayed temperature and current one. In order to prevent this from happening device has an option of sensor calibration.

If you attend to correct the displayed temperature, go to “Temperature adj.” in the menu. Set the current temperature by using up and down buttons and accept it.

Hint!

Before temperature calibration always leave device for a couple of minutes turned on. Temperature inside of unit might be slightly different when screen is warmed up.

3. Warranty terms and conditions

All products of Gil Brother Technology company are subject to 24 months warranty. The term of warranty can be extended up to 36 moths (max.) with additional payment (ask for more details at local dealer)

During warranty period all defects will be eliminated on the manufacturer cost. All these at the local service point authorized by GilBT. Cost of delivery to the work shop have to covered by user. Cost of delivery back to the user will be covered by entity engaged in the repair. Warranty period automatically will be extended for the time that the unit is being repaired.

Warranty repairs will be executed only with a valid proof of purchase.

Warranty does not cover:

- any defects resulting from the cleaning, repairs, etc. performed by an entity other than an authorized by GilBT.
- mechanical, chemical, thermal damages and any other defects resulting from careless or improper storage (eg storage of goods in the inappropriate conditions such a temperature out of specified range, storage close to chemicals such as naphthalene or other harmful chemicals),improper maintenance, etc.
- damage caused by improper installation and use not recommended by manufacturer eg. device is adopted for stationary installation and usage.
- any defects or damage that occurred as a result of fire, earthquake, flood, lightning or other natural disasters, environmental pollution, irregular or defective supply of electricity such a voltage fluctuations
- abrasion and scratching of the outer surfaces including plastics and metals

Warranty can lapse due to:

- improper installation or maintenance
- repair or opening of the device by unauthorized persons
- mechanical, thermal and chemical damages or usage inconsistent with its intended purpose

The warranty does not exclude, limit or suspend the rights of the purchaser arising from the consumer protection law.

4. Technical specification

models XLX1			
model	RL21; YL21; GL21; BL21	RL31; YL31; GL31; BL31	RL41; YL41; GL41; BL41
dimensions [cm]	103x30x7	152x30x7	201x30x7
resolution	128x32px	192x32px	256x32px
LED quantity	4096	6144	8192
max power consumption	75W	115W	150W
avg power consumption	17W	25W	34W
weight	9kg	13.5kg	18kg
LED size	5mm		
pitch size	7.62mm		
lifespan	>50 000 hours standard LEDs ; >100 000 hours bright LEDs		
power input	230V~ 50-60Hz		
viewing angle	110° horizontal ;60° vertical		
storage temperature operating temperature	from -30'C to +80'C from -20'C to +55'C		
viewing distance	7m-100m		
memory	SD card (max. 4GB)		
programming	LPD software		
controlling	remote controller 433.92MHz		
warranty	12 months		

models XLX2			
model	RL22; YL22; GL22; BL22	RL32; YL32; GL32; BL32	RL42; YL42; GL42; BL42
dimensions [cm]	103x55x7	152x55x7	201x55x7
resolution	128x64px	192x64px	256x64px
LED's quantity	8192	12288	16384
max power consumption	150W	225W	300W
avg power consumption	34W	50W	68W
weight	16kg	21kg	30kg
LED size	5mm		
pitch size	7.62mm		
lifespan	>50 000 hours standard LEDs ; >100 000 hours bright LEDs		
power input	230V~ 50-60Hz		
viewing angle	110° horizontal ;60° vertical		
storage temperature operating temperature	from -30'C to +80'C from -20'C to +55'C		
viewing distance	7m-100m		
memory	SD card (max. 4GB)		
programming	LPD software		
controlling	remote controller 433.92MHz		
warranty	12 months		

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